

Guess Paper – 2014
Class – IX
Subject – Mathematics

1. A dishonest dealer professes to sell his goods at cost price, but he uses a weight of 950 grams for a Kg weight. What is the gain percentage?
2. A merchant professes to lose 7% on a certain tea, but he uses a weight of 900 grams instead of 1 kg. Find his real loss or gain percentage?
3. A sells a bicycle to B at a profit of 20% and B sells to C at a profit of 25%. If C pays Rs. 225 for it, what did A pay for it?
4. Find the simple interest on Rs. 523 for 3 years at 6%. Also find the amount.
5. Find the simple interest on Rs. 471 for 7 months at 2 paise per rupee per month.
6. Find the simple interest on Rs. 800 lent on August 6th, and received back on October 18th of the same year, rate being $3\frac{1}{4}\%$
7. Find the compound interest on Rs. 825 for two years when the rate of interest for the first year is 4% and for second year is 3%.
8. What sum put out at compound interest will amount to Rs. 9261 at the end of 3 years at 5%
9. If a man walks 3 km/h, he is late by 40 minutes and if he increases his speed of walking to 4 km/h, he reaches 30 minutes early. How far he has to walk?
10. Find the following:
 - (i) ? % of 480 = 19.2
 - (ii) ? % of 8 = 12
 - (iii) 40% of ? = 160
 - (iv) 80% of ? = 6400
 - (v) 33 of 300 = ?
 - (vi) 90 of 180 = ?
 - (vii) X% of y is 13x. Then find y = ?
 - (viii) If x is 90% of y what percent of x is y?
 - (ix) 75% of 150?
 - (x) ?% of 500 = 28
11. A's income is 25% more than B's income. Find the % of B's income in terms of A's income ?

12. By how much is 11% of 22.2 less than 10% of 24.4?
13. A car moves with 72 Km/h speed. Find its speed in m/s
14. Convert in to Km/h
- 20m/s
 - 15 m/s
 - 10 m/s
 - 25 m/s
 - 5 m/s
15. Convert in to m/s
- 36 Km/h
 - 60 Km/h
 - 54 Km/h
 - 48 km/h
 - 108 km/h
16. The sides of a rectangular field are in the ratio 3:2. If its area is 726 sq meters then find the diagonal of the field?
17. The sum of two numbers is 25 and their difference is 13. Find their product?
18. The product of four consecutive even numbers is always divisible by _____?
19. Find the following:
- $1+2+3+\dots+50$
 - $1^2+2^2+3^2+\dots+15^2$
 - $1^3+2^3+3^3+\dots+12^3$
 - $1+3+5+7+\dots+25$
 - $2+4+6+8+\dots+30$
20. If the sides of a square is reduced by 50% , then by what % its perimeter is reduced?
21. Find the LCM of the following numbers:
- 8,10,22
 - 4, 6,32
 - 15,25,45

22. HCF of two numbers is 24 and the LCM is 5304. If one of the numbers is 312, find the other?
23. The HCF of two number is 32 and their LCM is 320. If one of the number is 160, find the other.
24. If $(2^m)^m = 512$, find the value of m?
25. The average of three numbers is 15. What is two times the sum of the three numbers?

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